

I claim:

1. In an agricultural machine having an adjustable platform supported by the
2 machine and a control system for setting the operating height of said platform relative
to the ground, said control system including a sensor responsive to the angular position
4 of a shaft and generating a signal representative of said operating height, an improved
sensor arm coupled to said shaft and comprising an operating portion for contacting the
6 ground and being curved at the segment of said operating portion adjacent said shaft,
such that the distance between the center of said shaft and the point at which said
8 sensor arm contacts the ground decreases as the operating height of said platform is
decreased.

2. The apparatus of claim 1 wherein the curvature of said sensor arm extends
2 substantially continuously over said operating portion thereof.

3. The apparatus of claim 2 wherein said sensor arm includes a forward
2 curved portion extending from a location adjacent said shaft rearwardly to a transition
region and having a first curvature, and a second curved portion rearward of said first
4 curved portion and extending from said transition region to a location adjacent the rear
end of said operational region of said sensor shaft and having a second radius of
6 curvature.

4. The apparatus of claim 3 characterized in that said first radius of curvature
2 is less than said second radius of curvature.

5. The apparatus of claim 1 wherein said curved operating portion of said
2 sensor arm comprises a plurality of discrete curved portions extending adjacent one
another over substantially the entire operating portion of said sensor arm.

6. In an agricultural machine having a platform carried by the machine, and
2 a control system for setting the operating height of said platform relative to the ground,
said control system including a sensor mechanism comprising a member rotatable about
4 an axis, a sensor arm mounted to said rotatable member and including an operating
portion for contacting the ground, characterized in that a forward segment of said
6 operating portion is substantially continuously curved whereby when said platform is set
at a lower operating height, the distance between said rotatable member and the point
8 at which said arm contacts the ground continuously decreases as the operating height
of said platform is decreased.

7. The apparatus of claim 6 wherein said curved portion of said sensor arm
2 comprises a first curved portion having a substantially constant radius of curvature, and
said sensor arm includes a second curved segment rearward of said first curved segment
4 and characterized in having a second radius of curvature, said second radius of curvature
being greater than said first radius of curvature, whereby the magnitude of response of
6 said control system is greater for lower operating heights of said platform than is the
response magnitude for higher operating heights of said platform.